

101553737

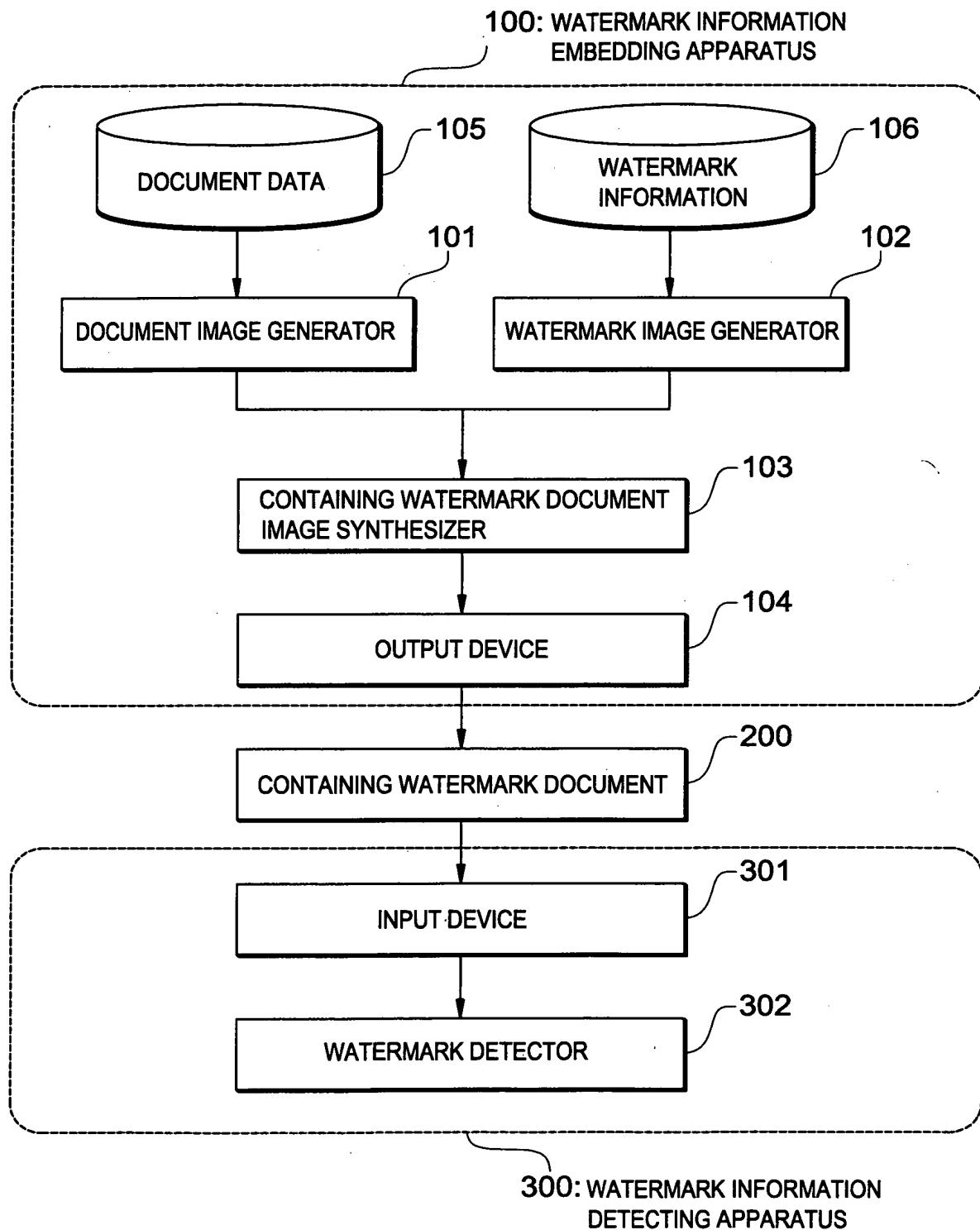


FIG. 1

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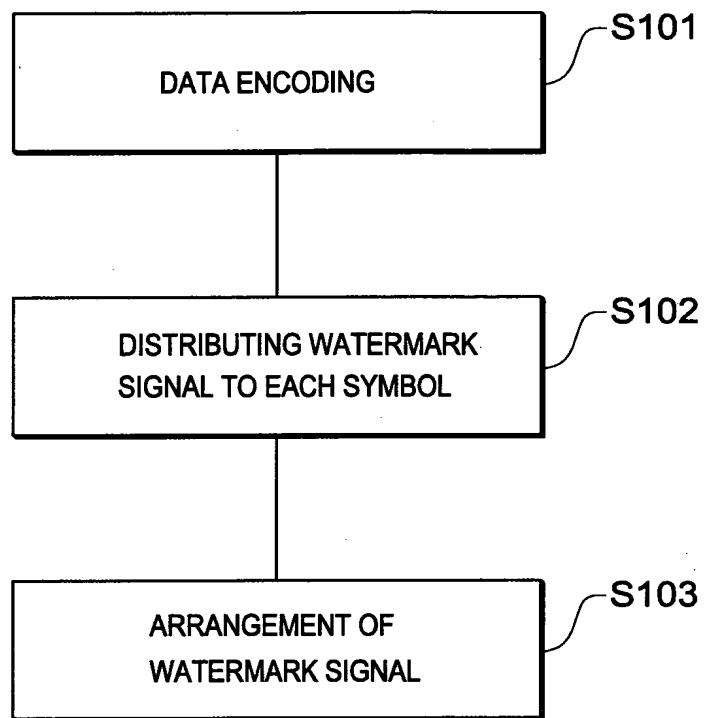


FIG. 2

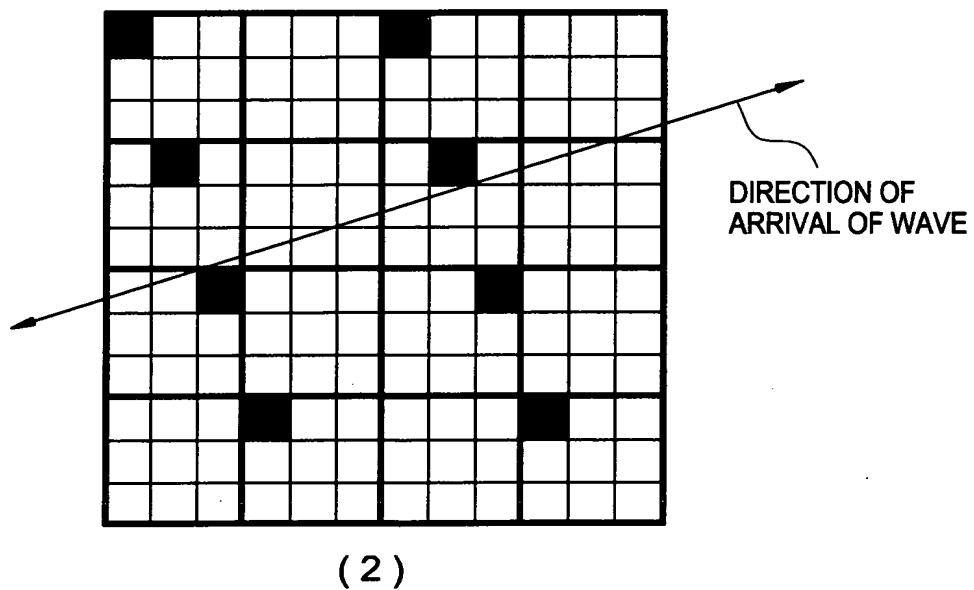
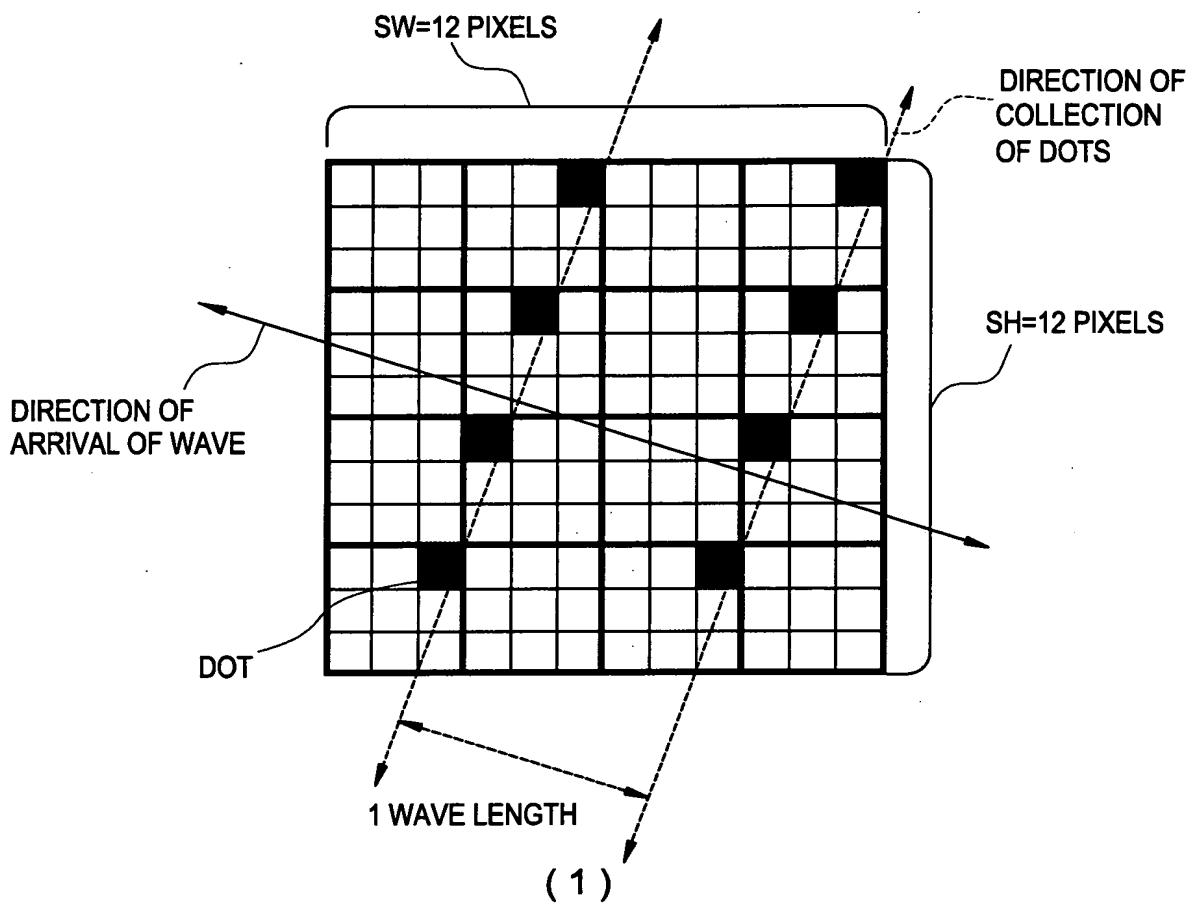


FIG. 3

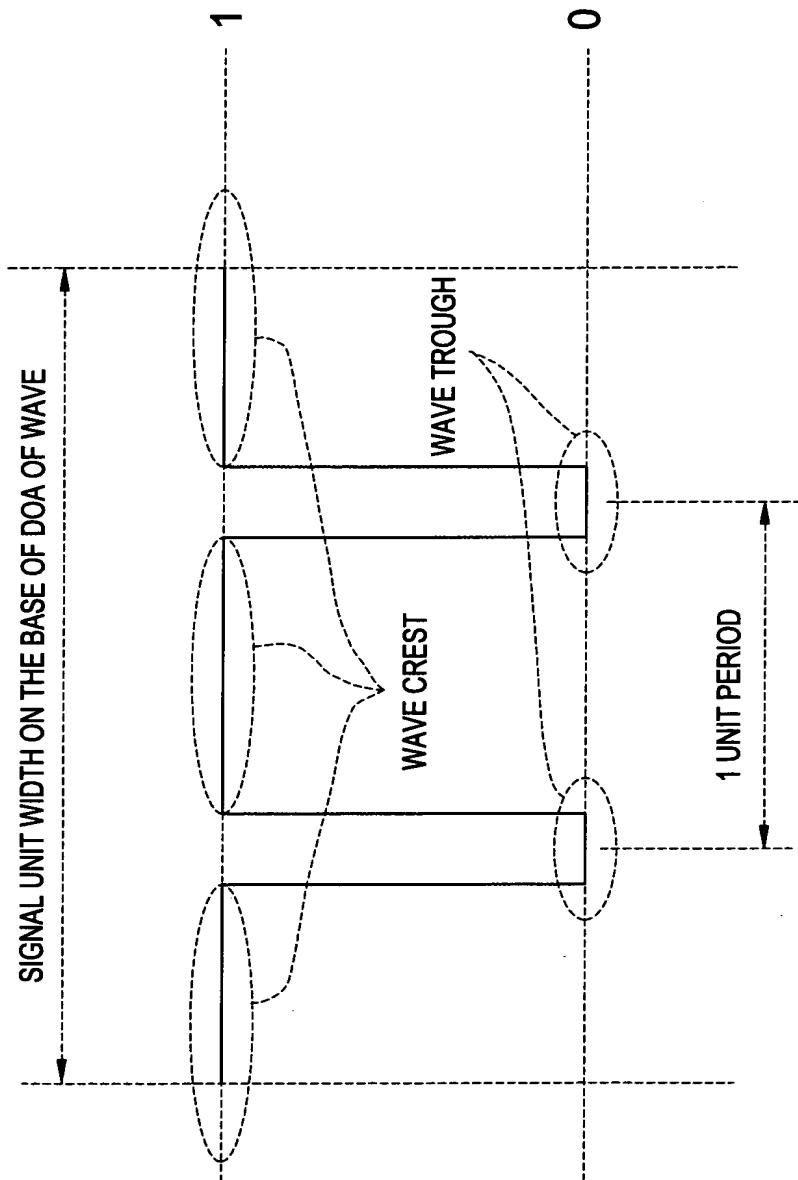


FIG. 4

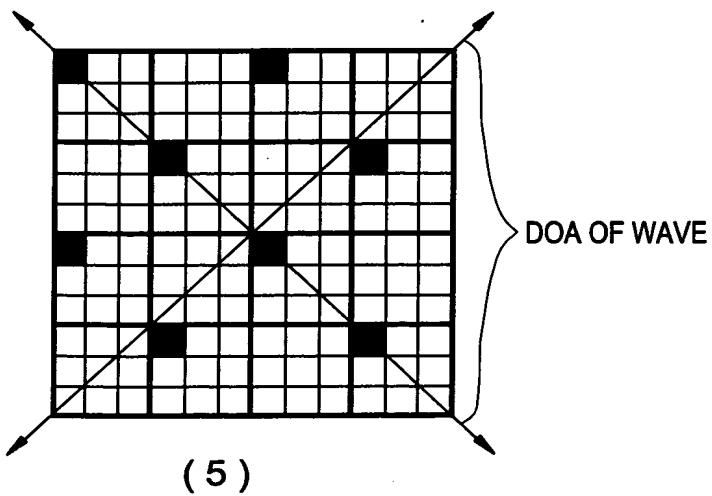
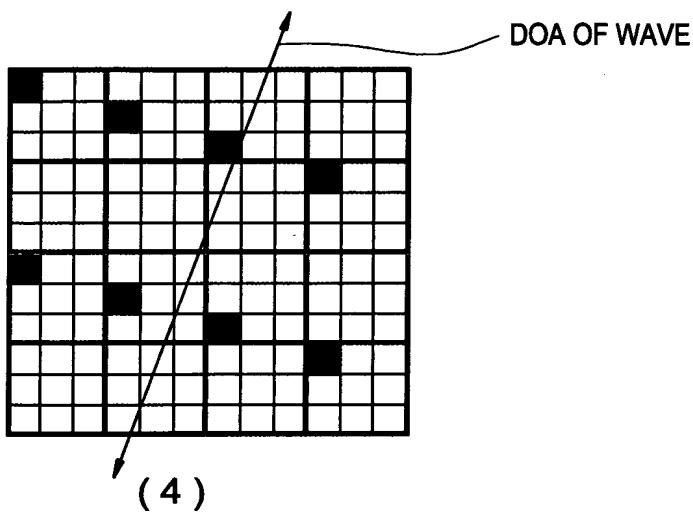
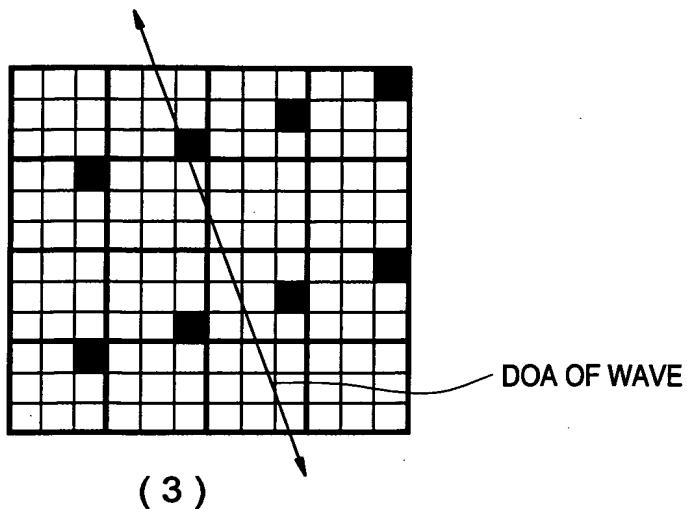
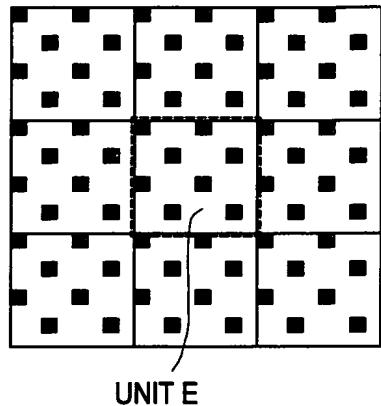
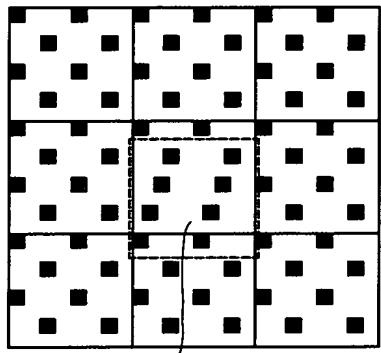


FIG. 5

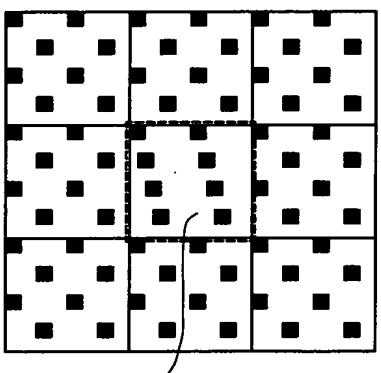
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UNIT E



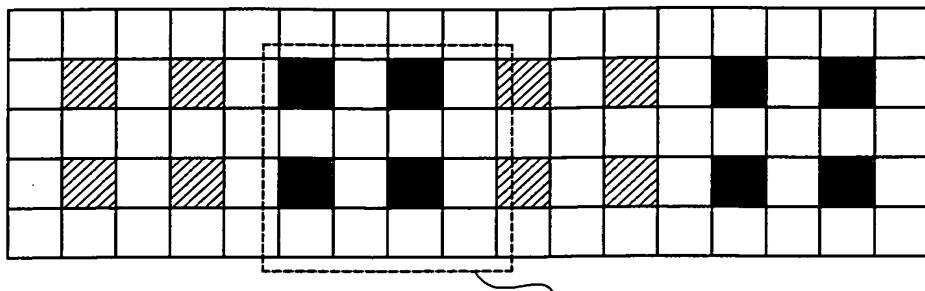
UNIT A



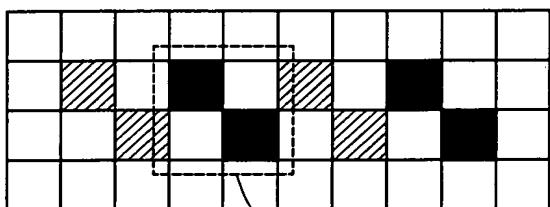
UNIT B

FIG. 6

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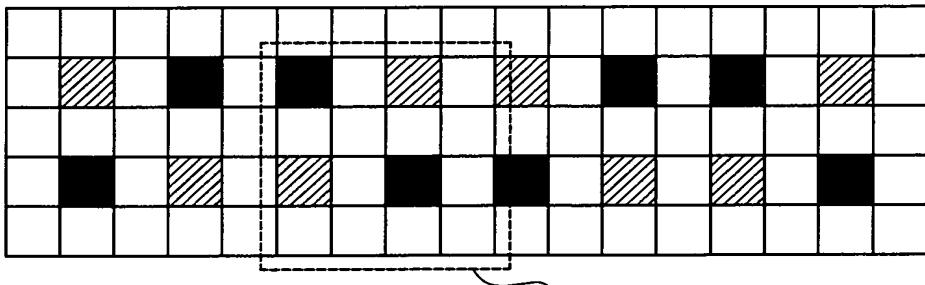
( 1 ) UNIT IMAGE



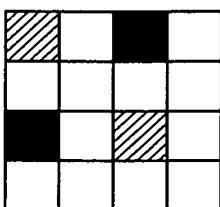
UNIT IMAGE

- UNIT A ( SYMBOL 0 )
- UNIT B ( SYMBOL 1 )
- UNIT E ( WITHOUT SYMBOL )

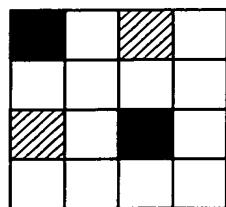
( 2 )



UNIT IMAGE



UNIT IMAGE OF  
SYMBOL 0



UNIT IMAGE OF  
SYMBOL 1

( 3 )

FIG. 7

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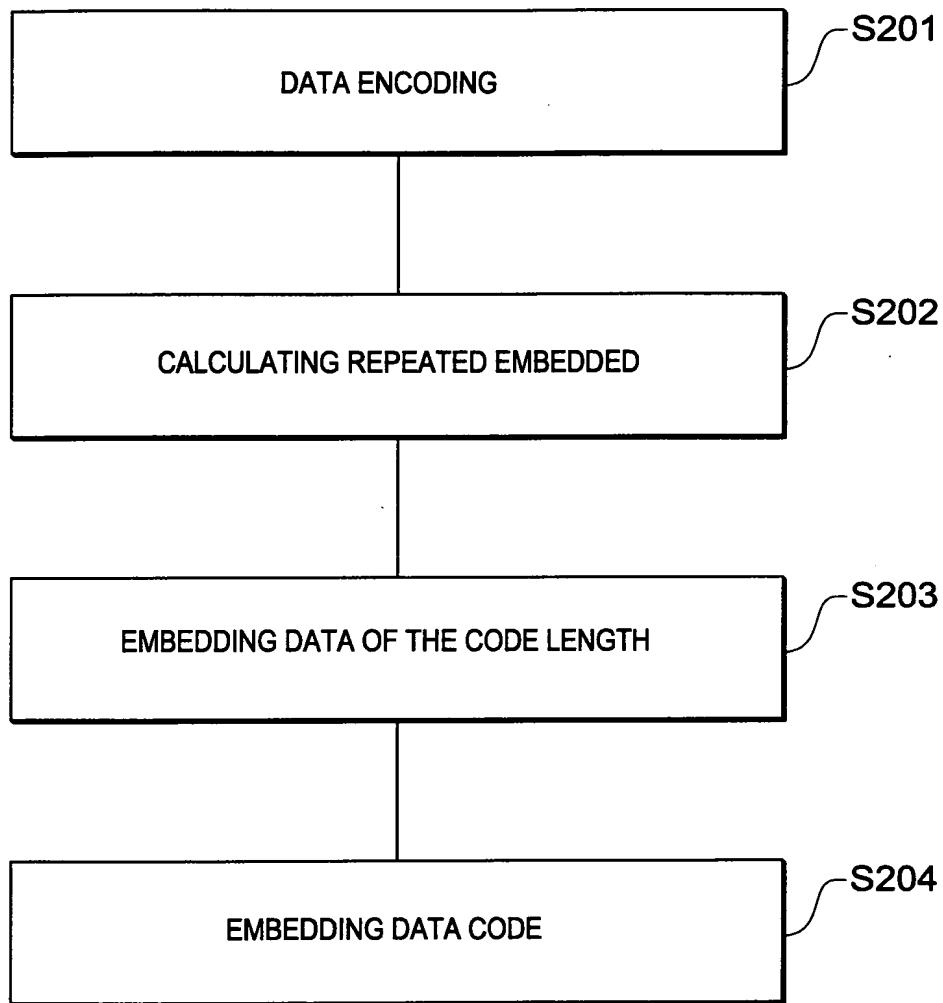
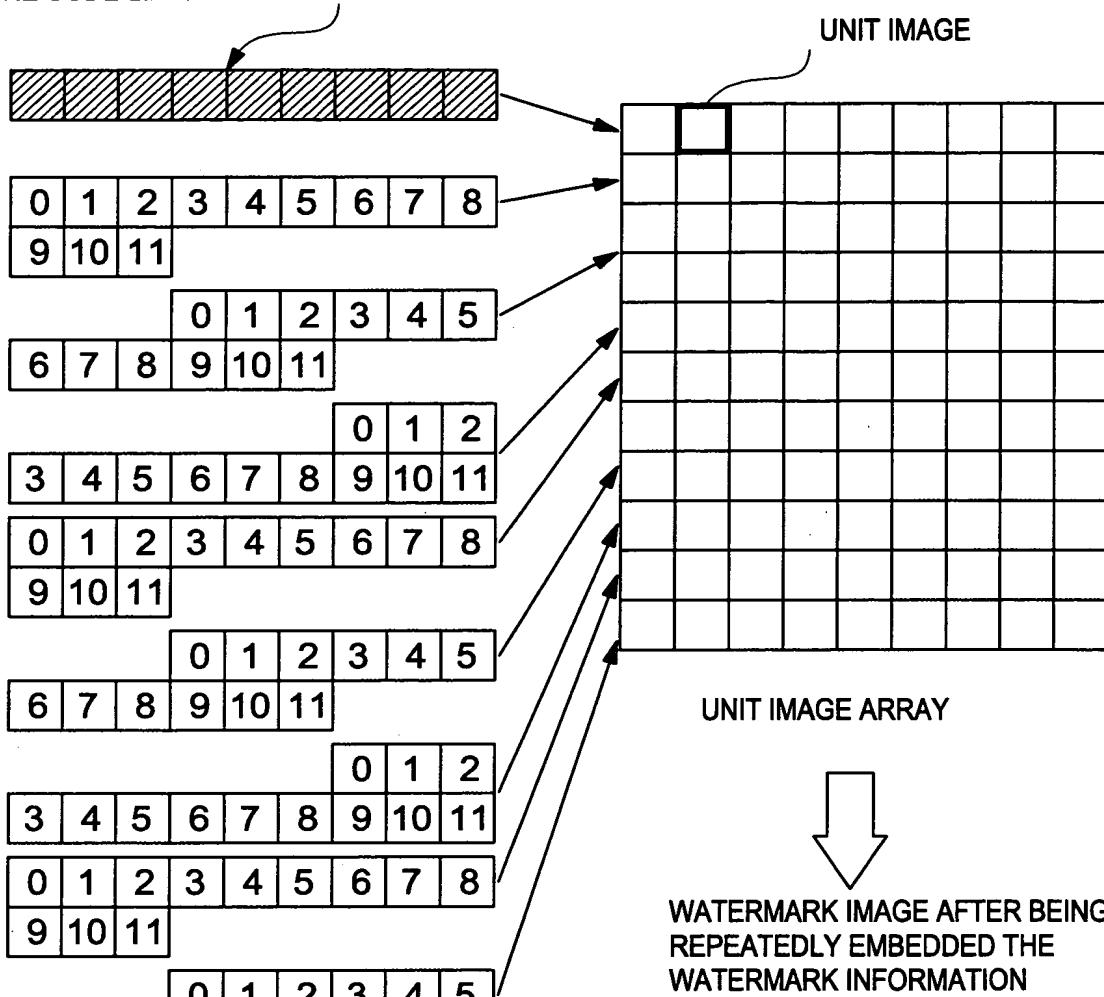


FIG. 8

UNIT IMAGE REPRESENTATION BEING EMBEDDED  
 THE CODE LENGTH'S BIT ARRAY THEREIN



DATA CODE UNIT

CODE LENGTH  
AREA

INFORMATION  
AREA

0	1	2	3	4	5	6	7	8
9	10	11	0	1	2	3	4	5
6	7	8	9	10	11	0	1	2
3	4	5	6	7	8	9	10	11
0	1	2	3	4	5	6	7	8
9	10	11	0	1	2	3	4	5
6	7	8	9	10	11	0	1	2
3	4	5	6	7	8	9	10	11
0	1	2	3	4	5	6	7	8
9	10	11	0	1	2	3	4	5

FIG. 9

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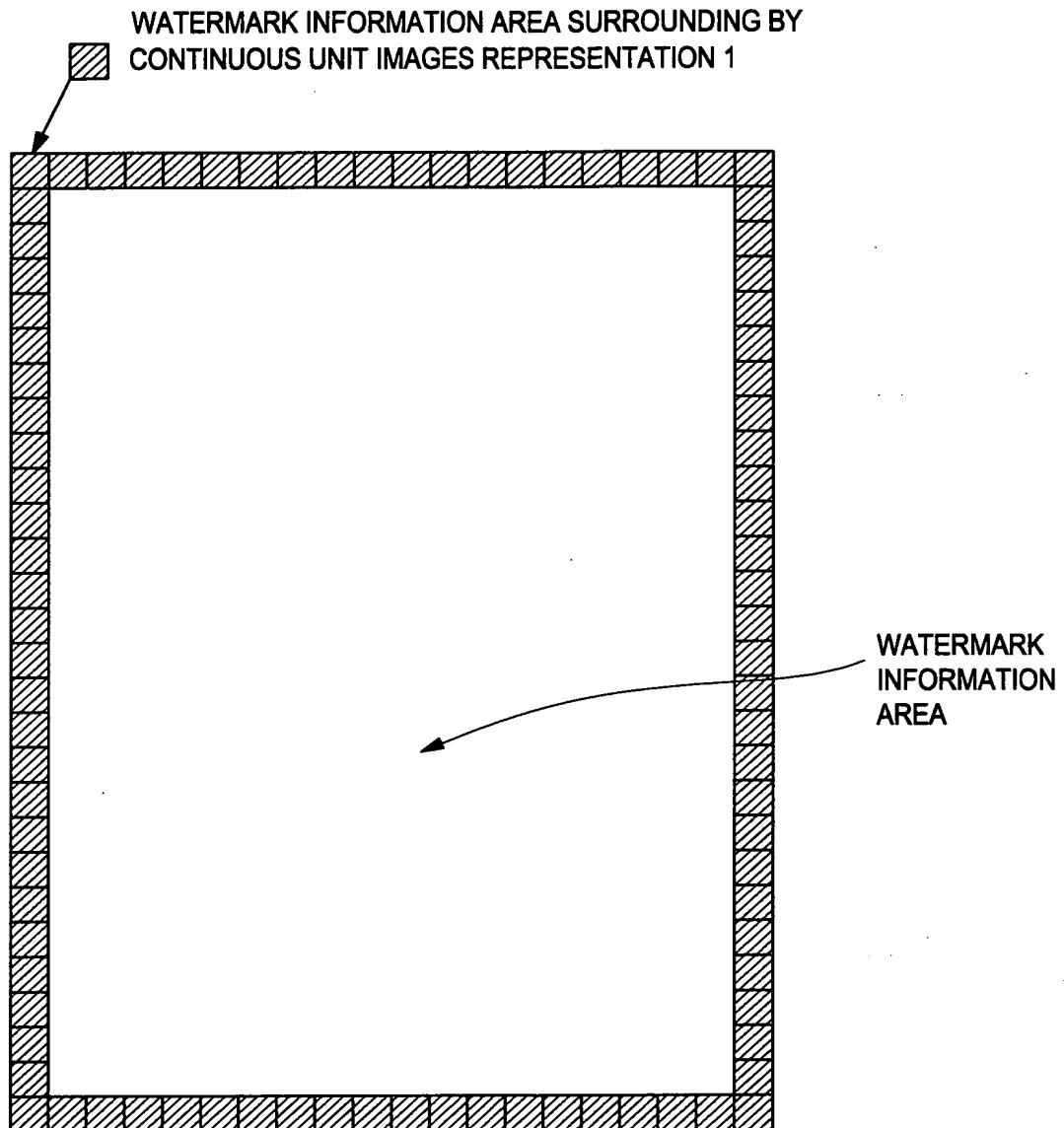


FIG. 10

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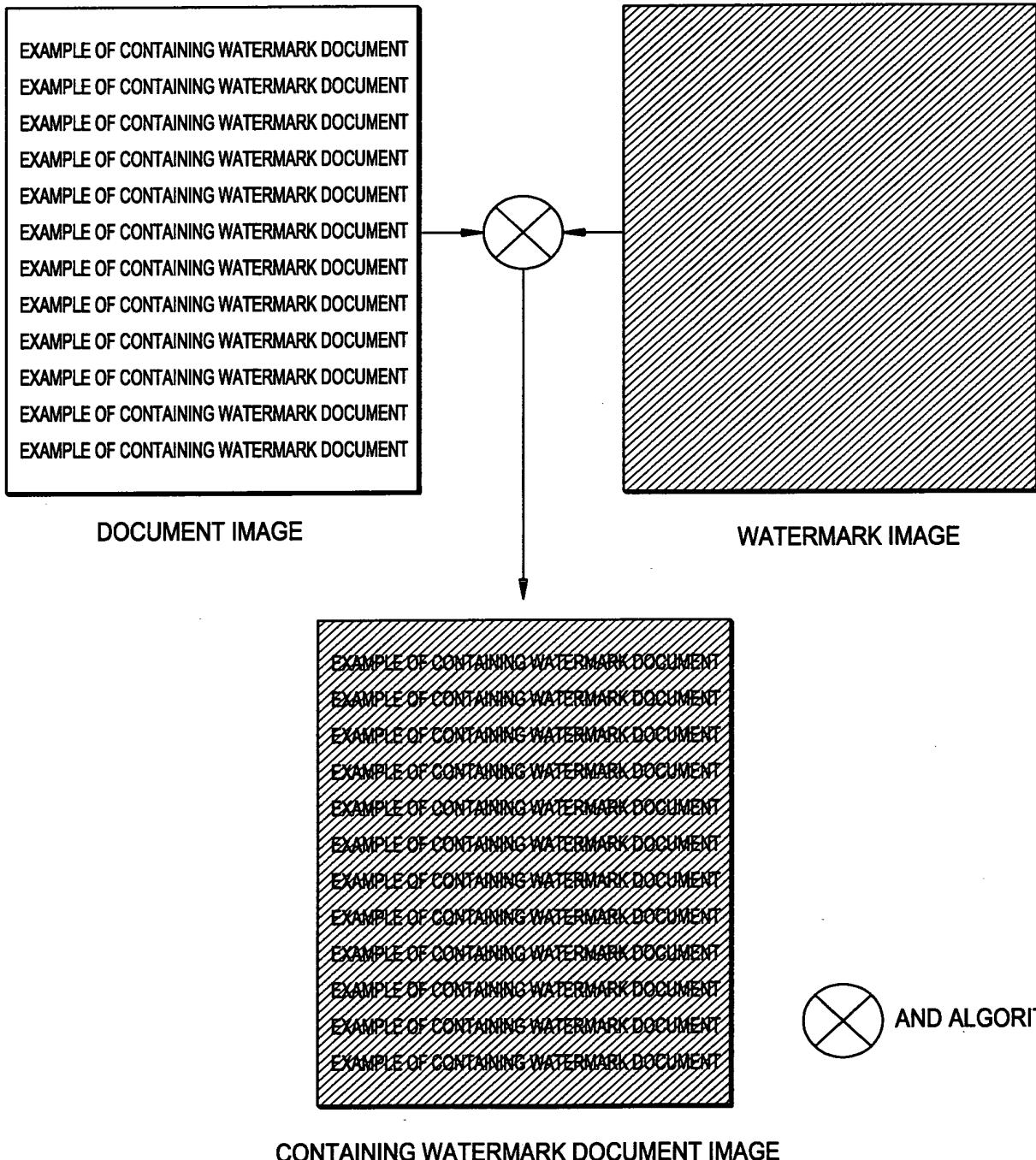


FIG. 11

011553737

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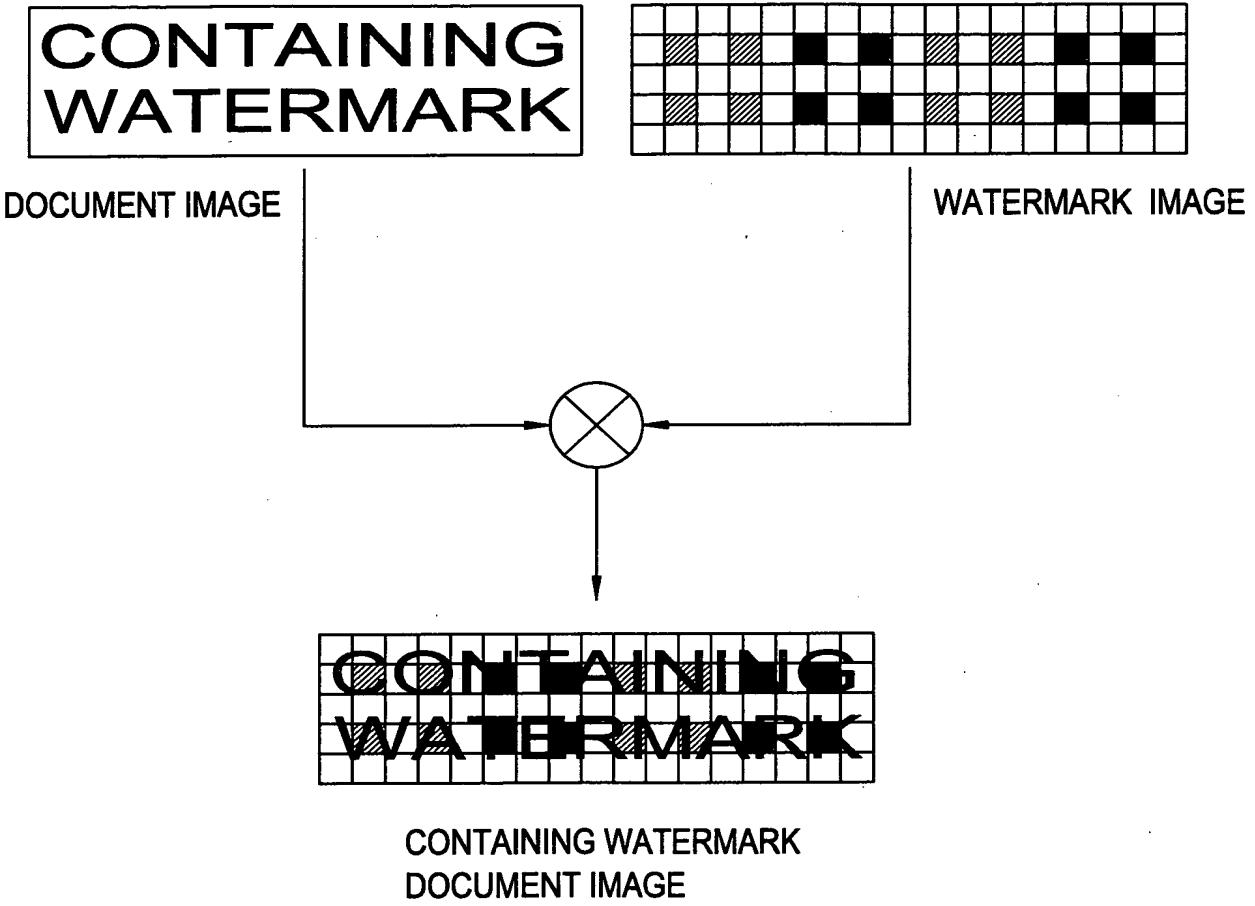


FIG. 12

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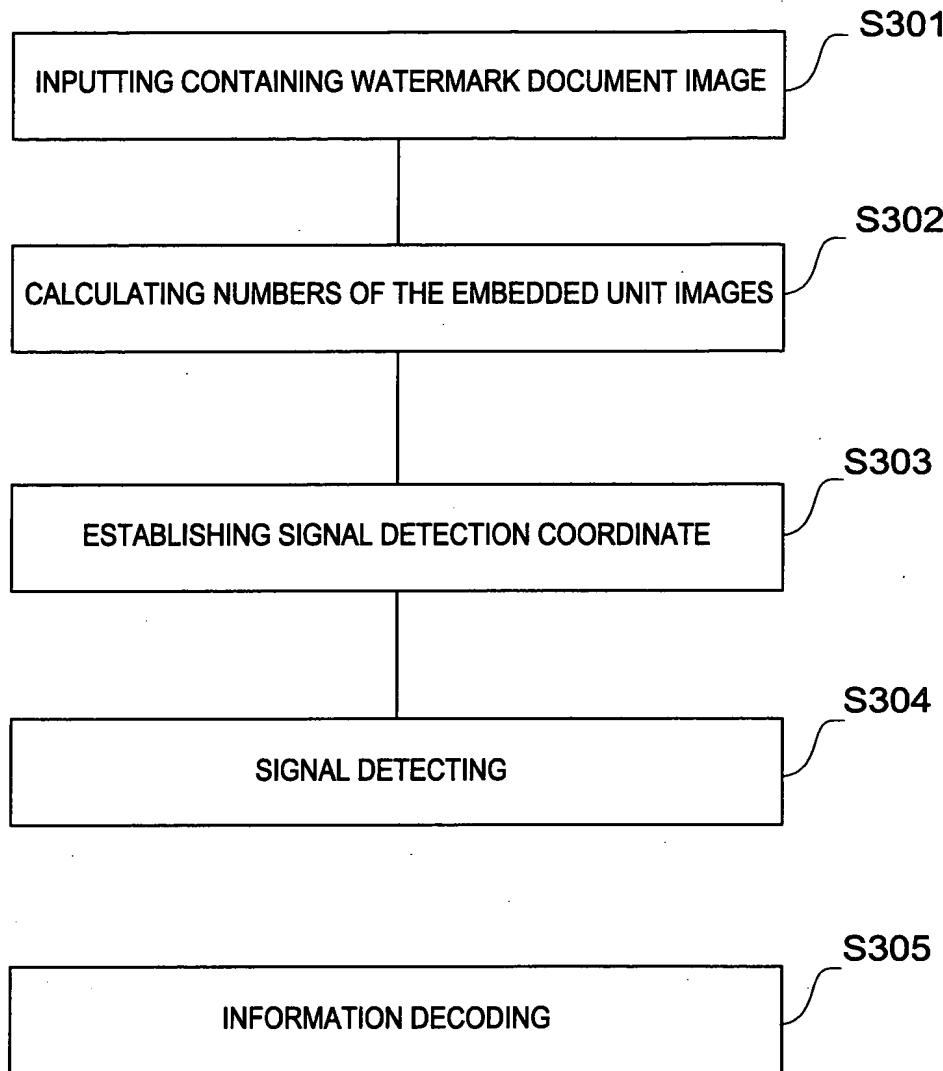
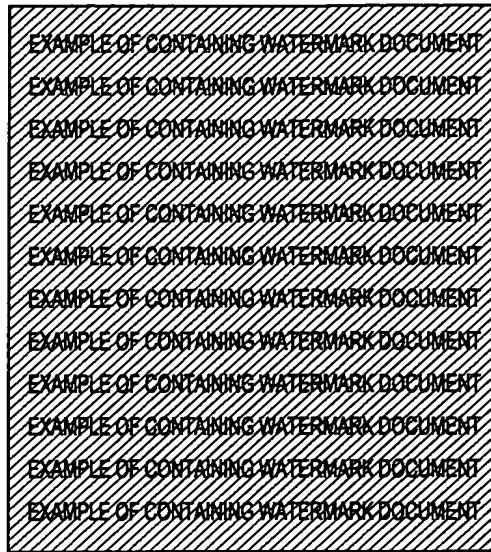


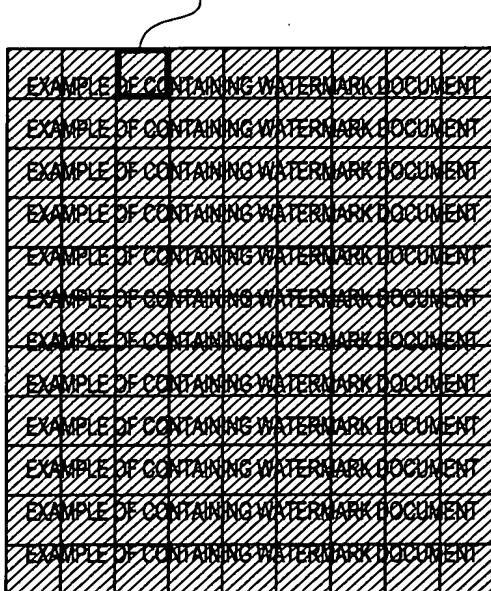
FIG.13

10455737  
S of drawings FIGS. 4-33  
& BERDO, P.  
sket: S.A.T. 2223N.B.

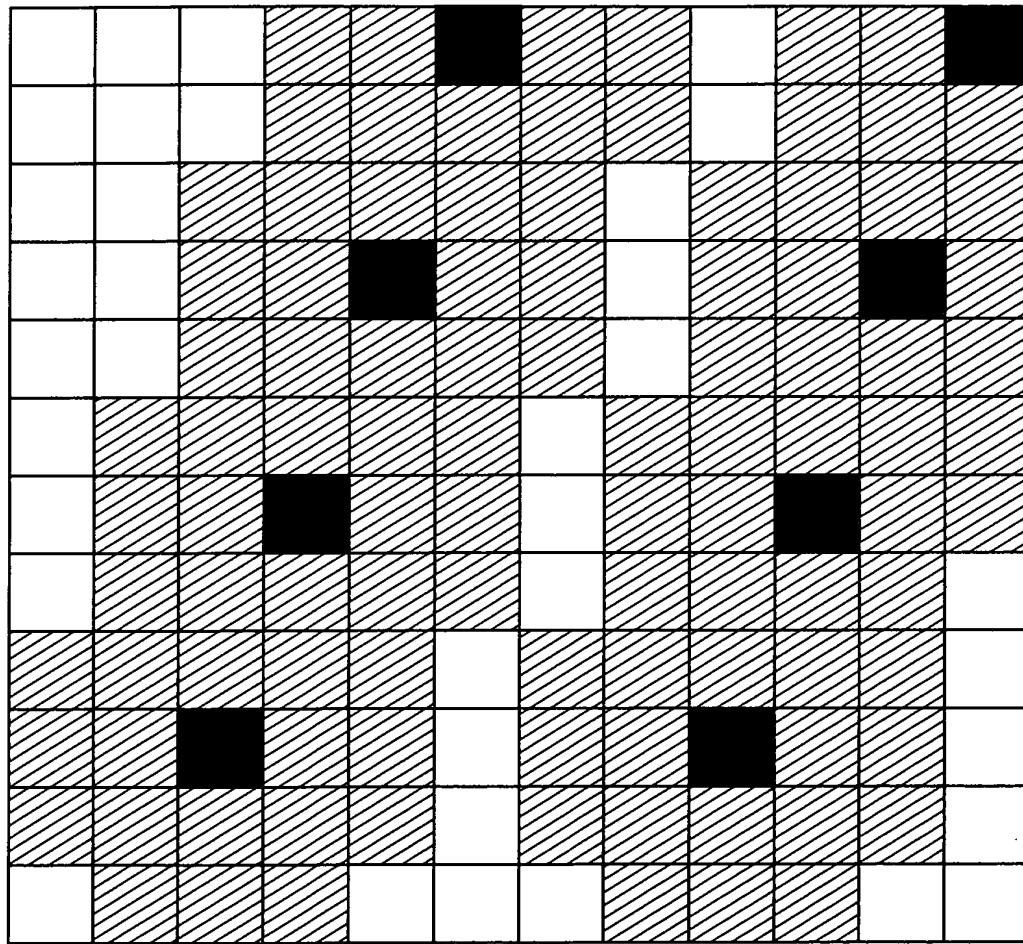
( 1 )



( 2 )



**FIG. 14**



**FIG. 15**

10/553737

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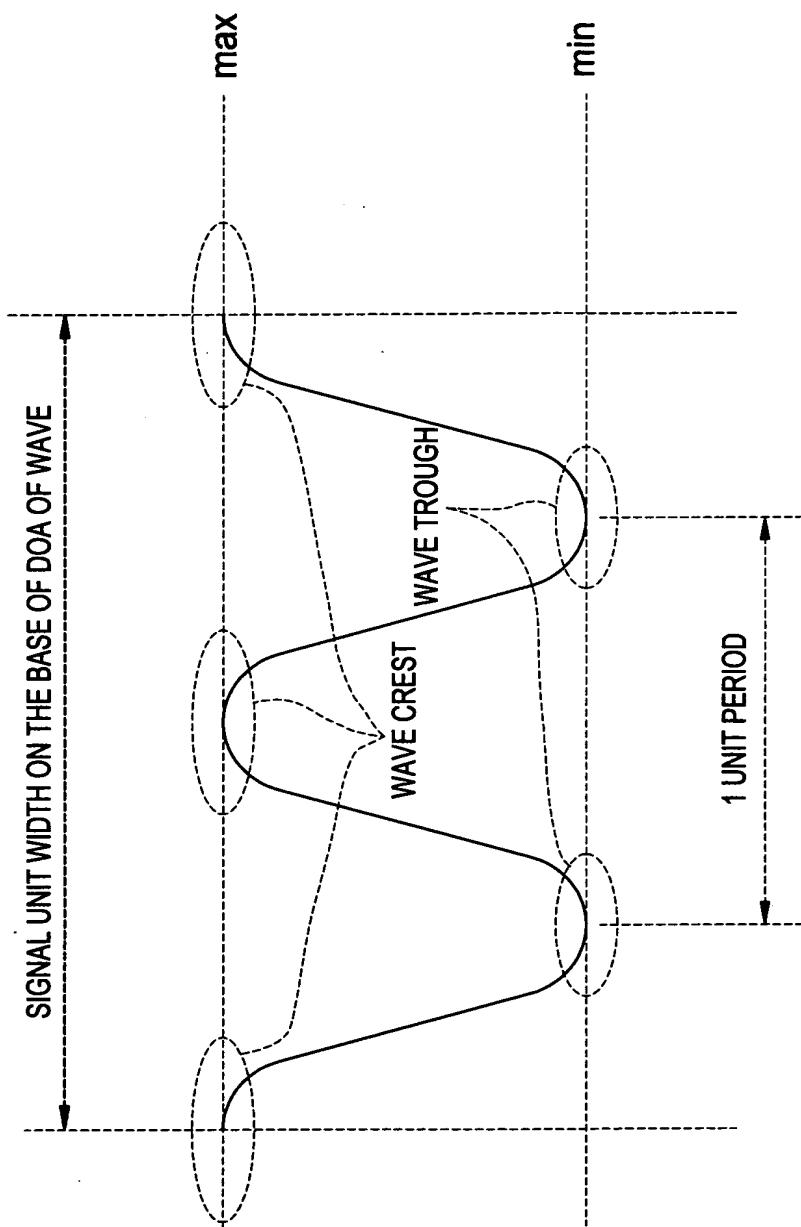
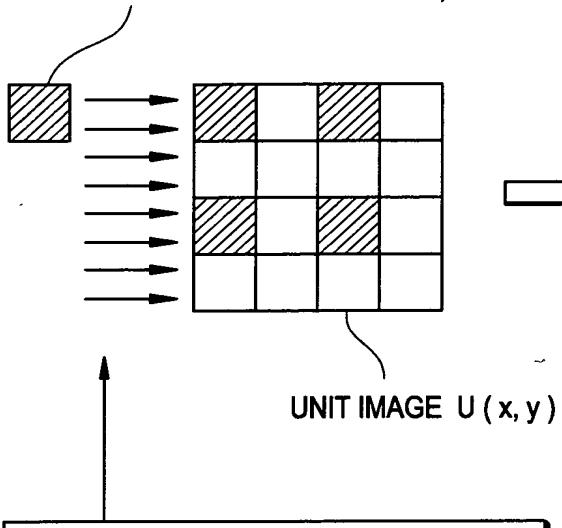


FIG. 16

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**FILTER A ( REAL NUMBER FILTER AND IMAGINARY NUMBER FILTER )**

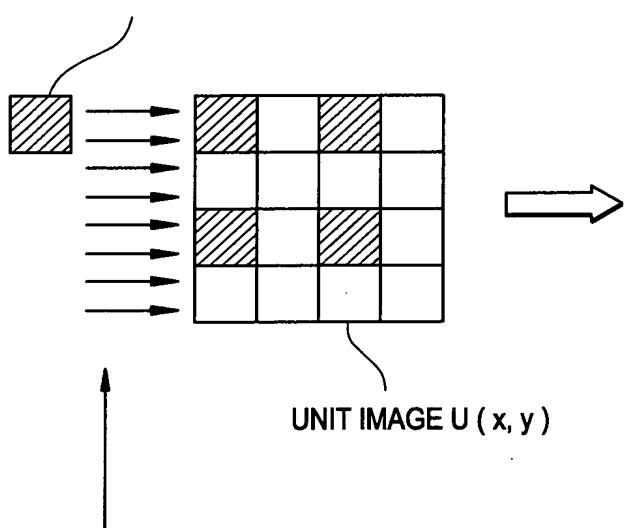


THE MAXIMAL VALUE OF  $F(A)$  IS TAKEN AS AN OUTPUT VALUE OF THE UNIT IMAGE FROM THE FILTER A AND DENOTED WITH  $F_u(A, x, y)$

SCROLLING ALONG HORIZONTAL AND VERTICAL DIRECTIONS, AND WORKING OUT THE CONVOLUTION

COMPARING  $F_u(A, x, y)$  WITH  $F_u(B, x, y)$ , DISCRIMINATING WHICHEVER IS GREATER, THE GREATER VALUE OF THE UNIT IMAGE IS EMBEDDED

**FILTER B ( REAL NUMBER FILTER AND IMAGINARY NUMBER FILTER )**



THE MAXIMAL VALUE OF  $F(B)$  IS TAKEN AS AN OUTPUT VALUE OF THE UNIT IMAGE FROM THE FILTER B AND DENOTED WITH  $F_u(B, x, y)$

SCROLLING ALONG HORIZONTAL AND VERTICAL DIRECTIONS, AND WORKING OUT THE CONVOLUTION

**FIG. 17**

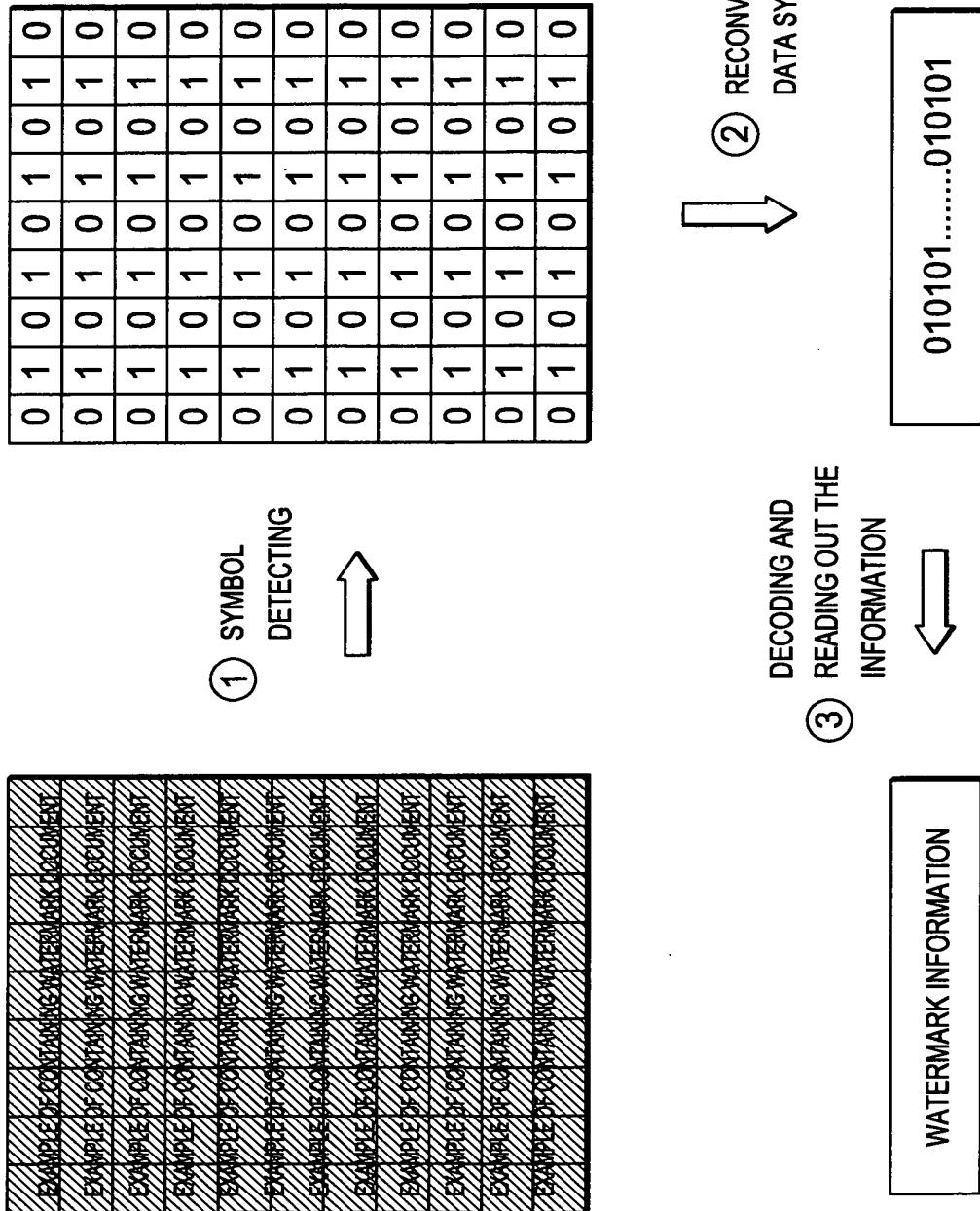
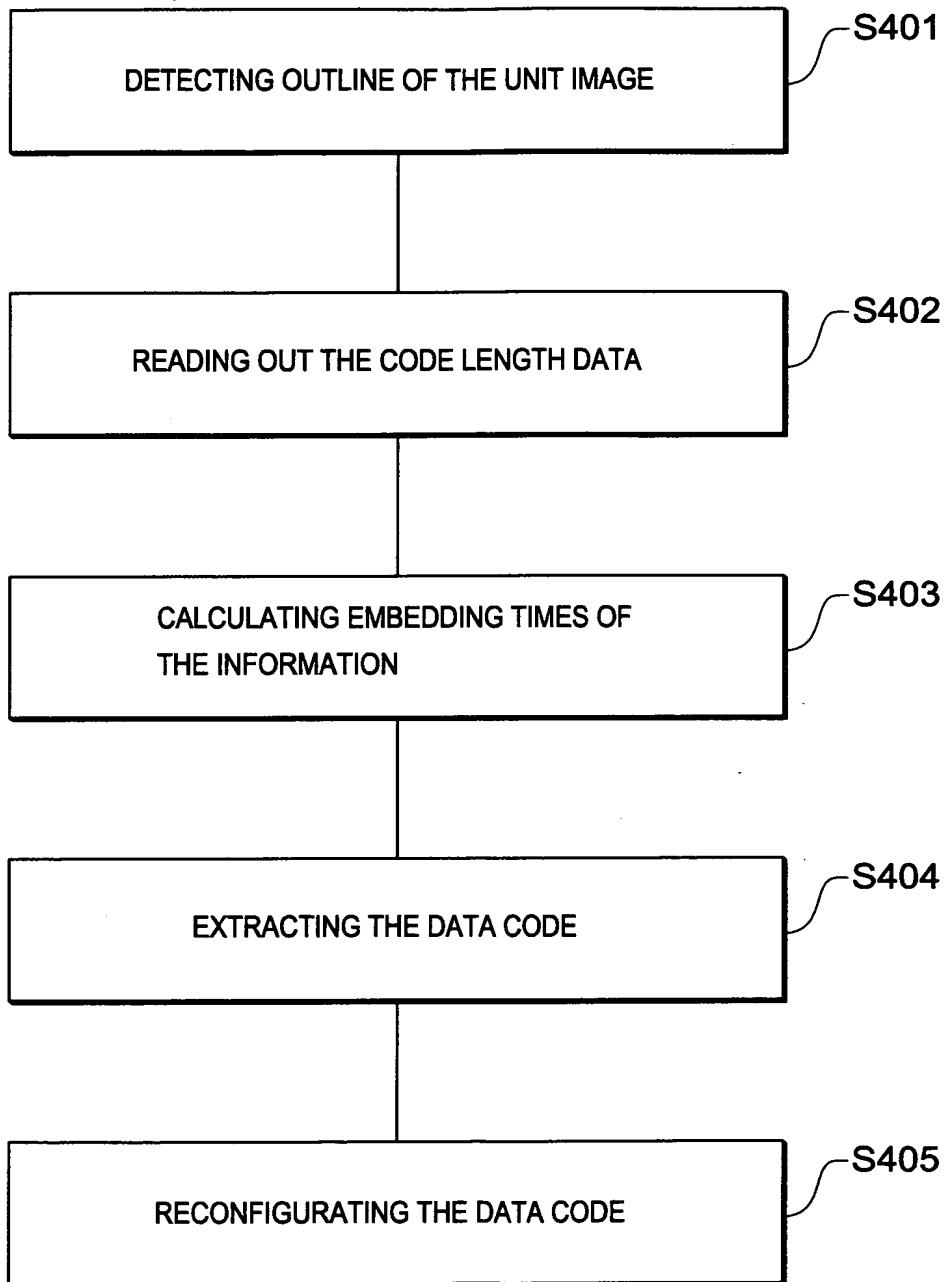


FIG. 18

REF. S.A.T. 223 N.P.  
NO.: 23995 10/1553737



**FIG. 19**

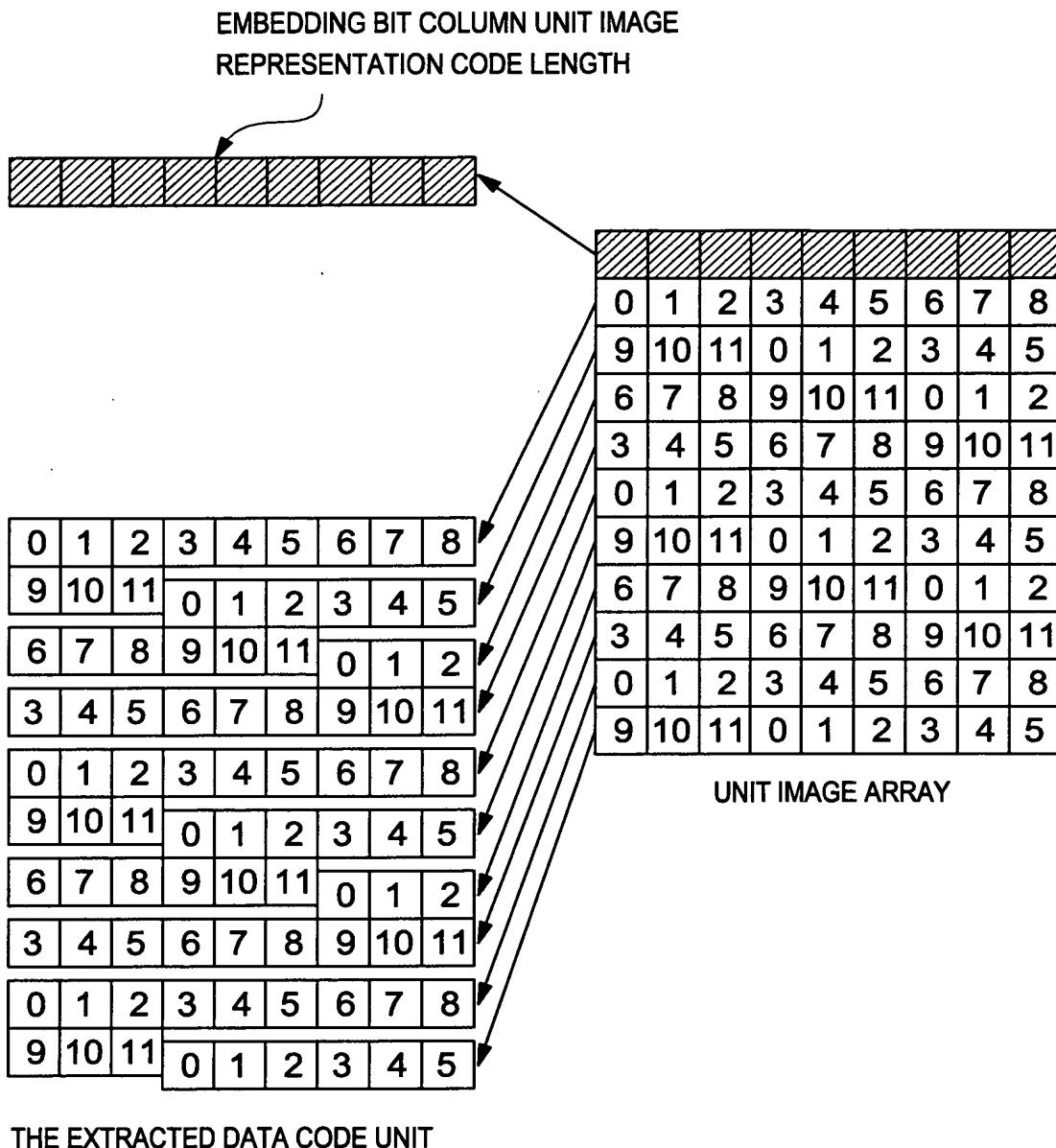


FIG. 20

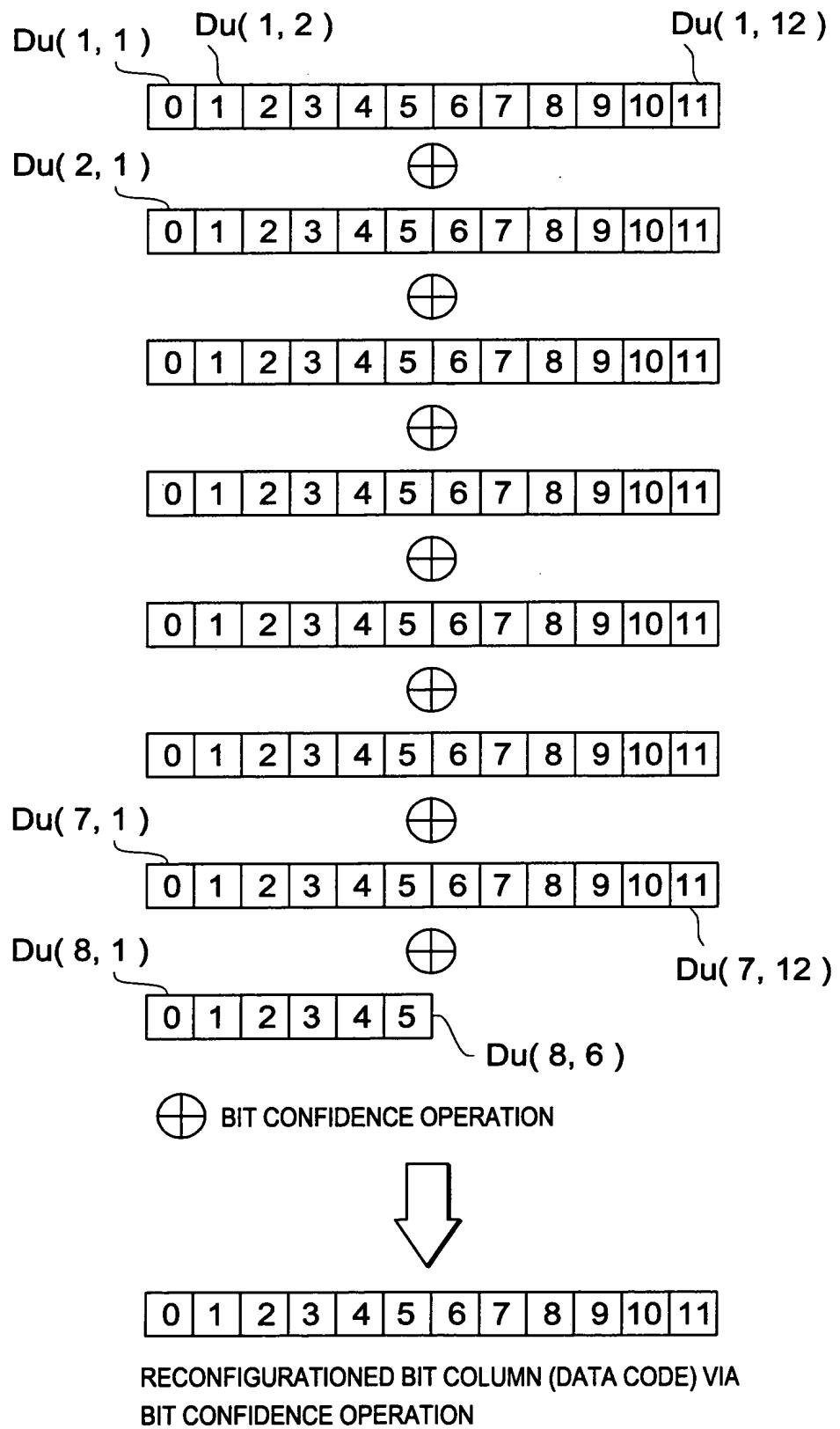


FIG. 21

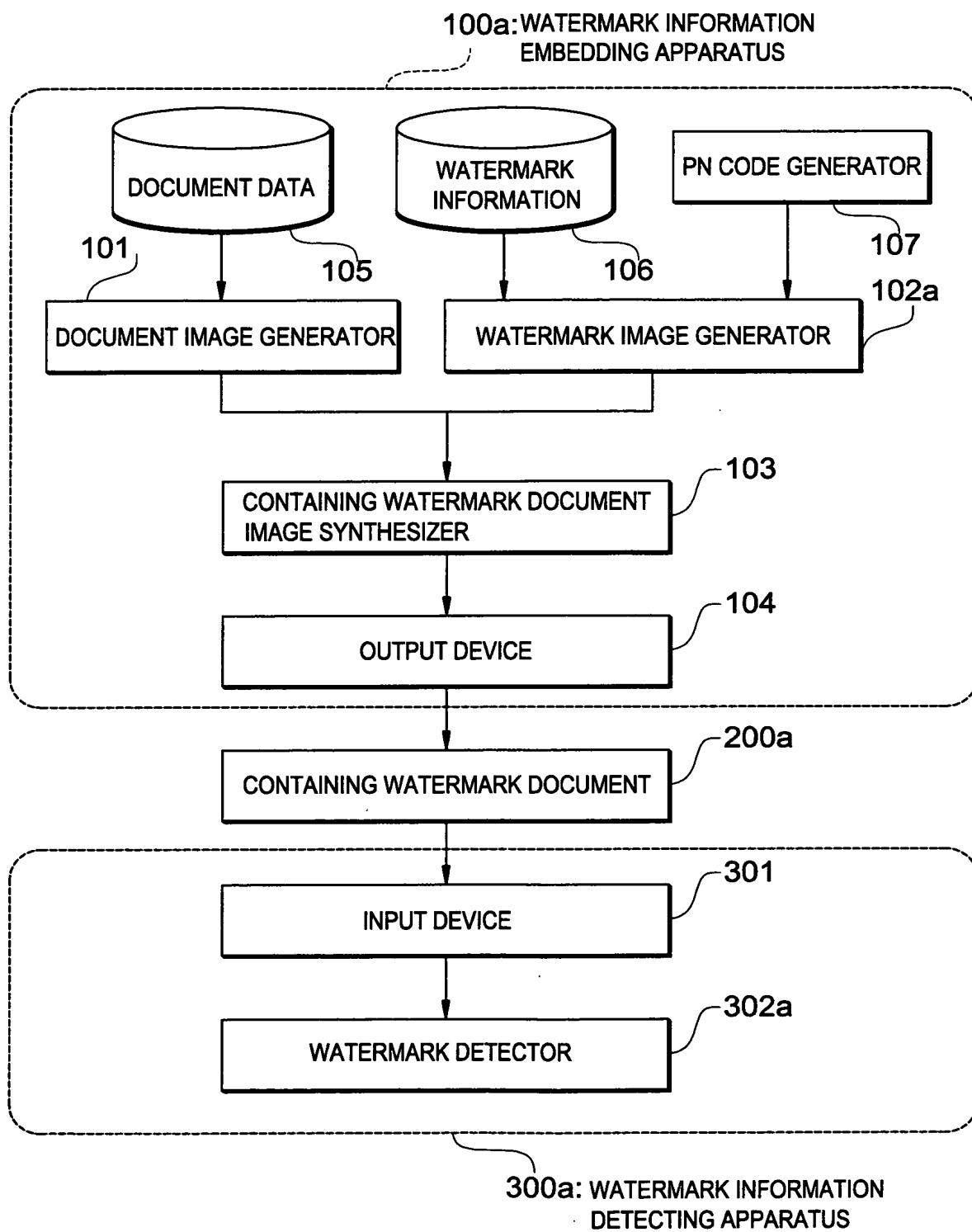


FIG. 22

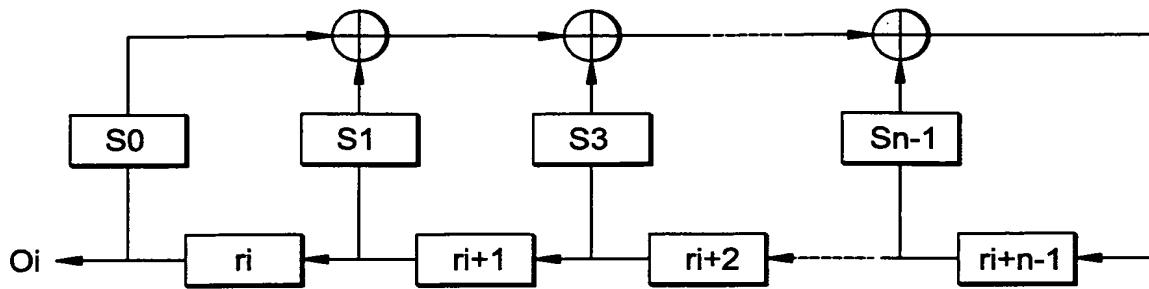


FIG. 23

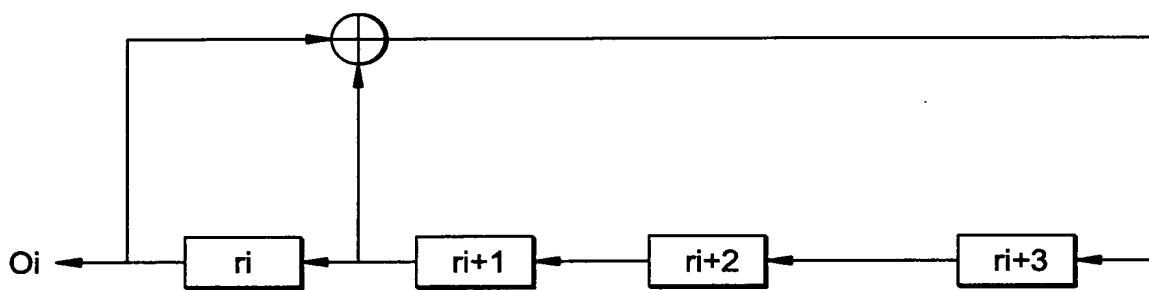


FIG. 24

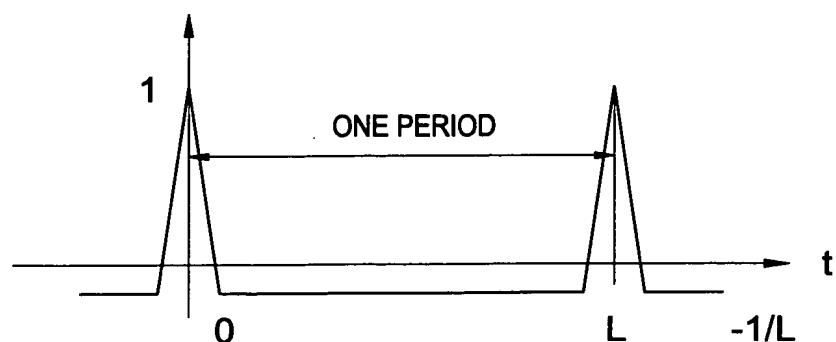


FIG. 25

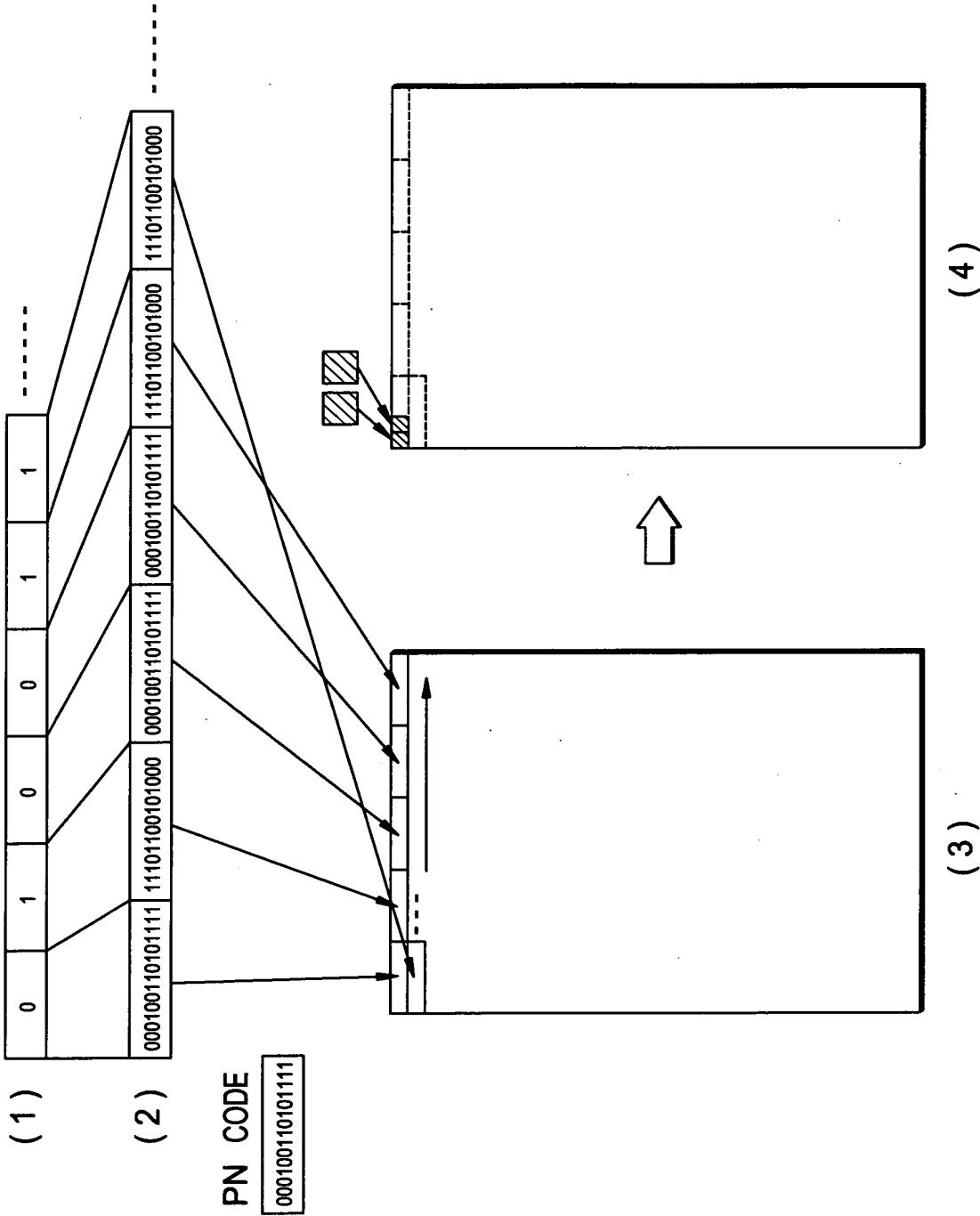


FIG. 26

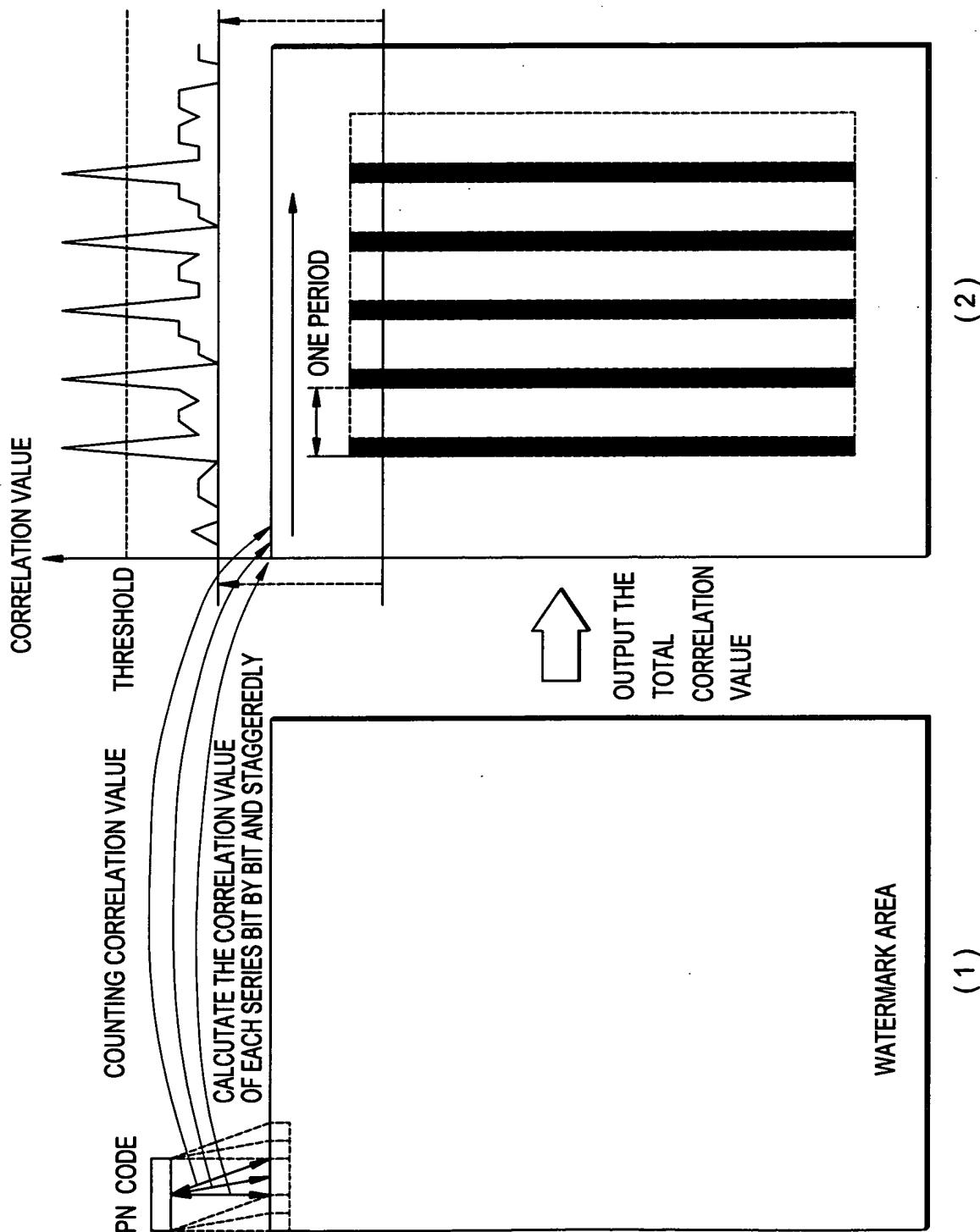


FIG. 27

(1)

(2)

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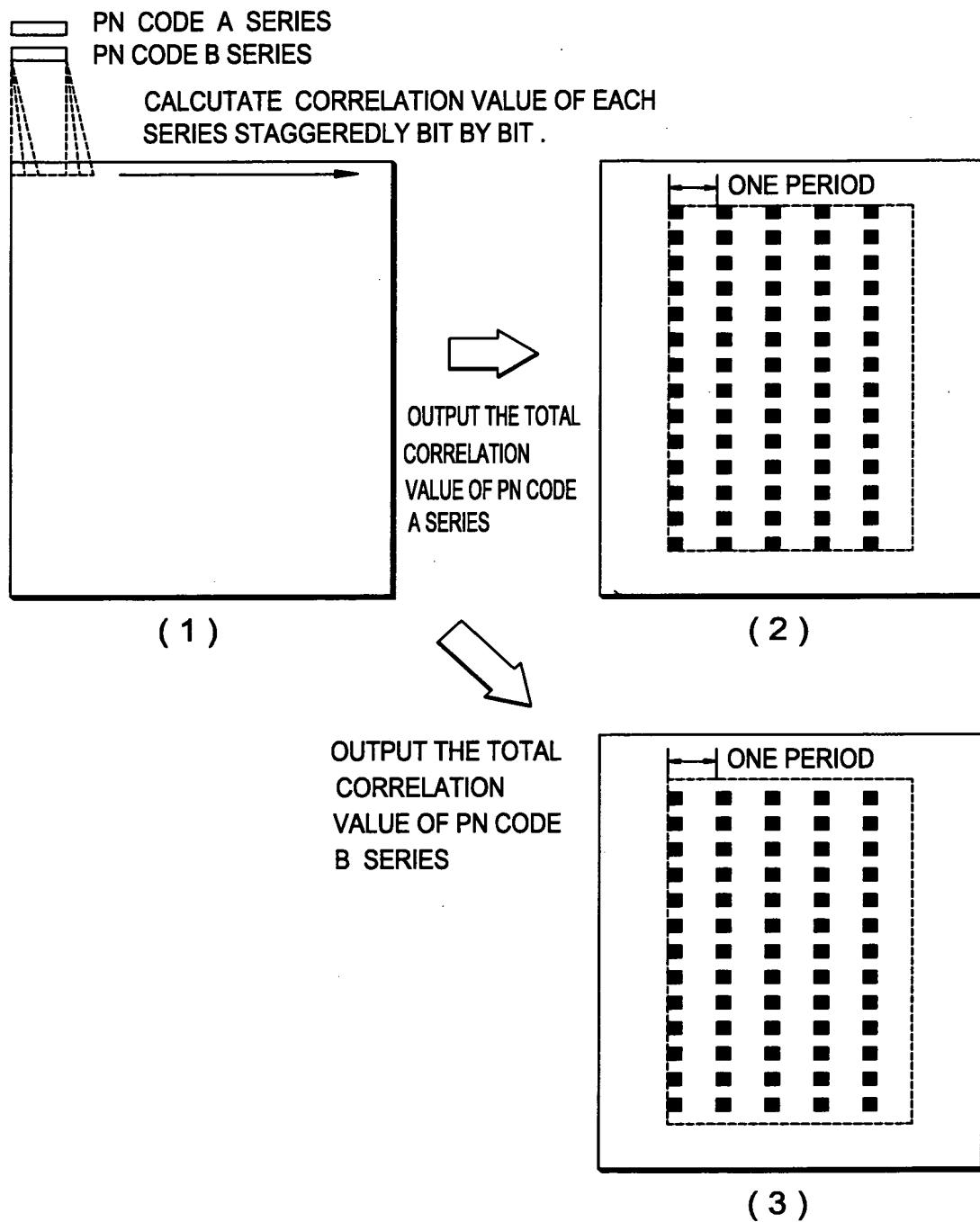


FIG.28

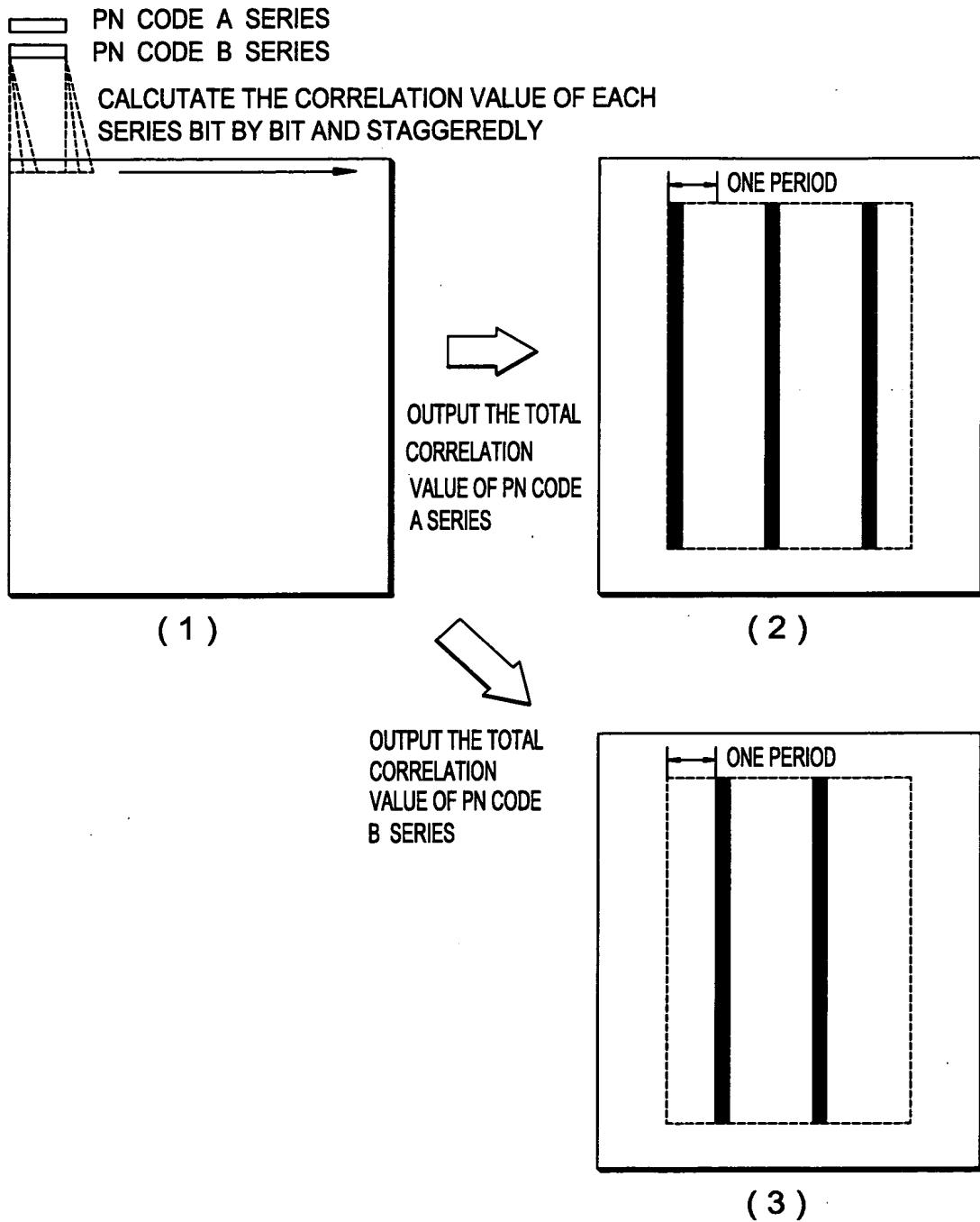
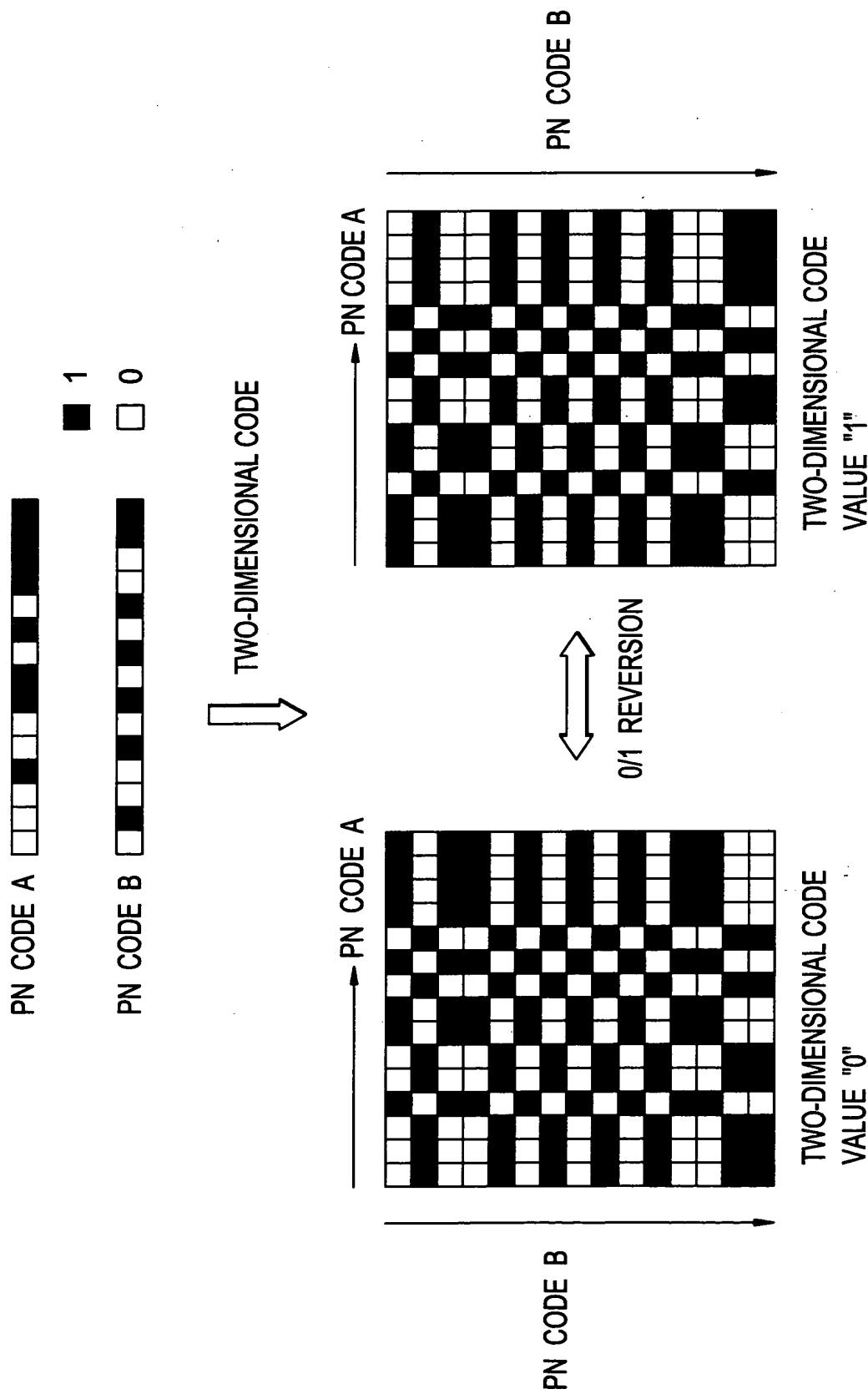
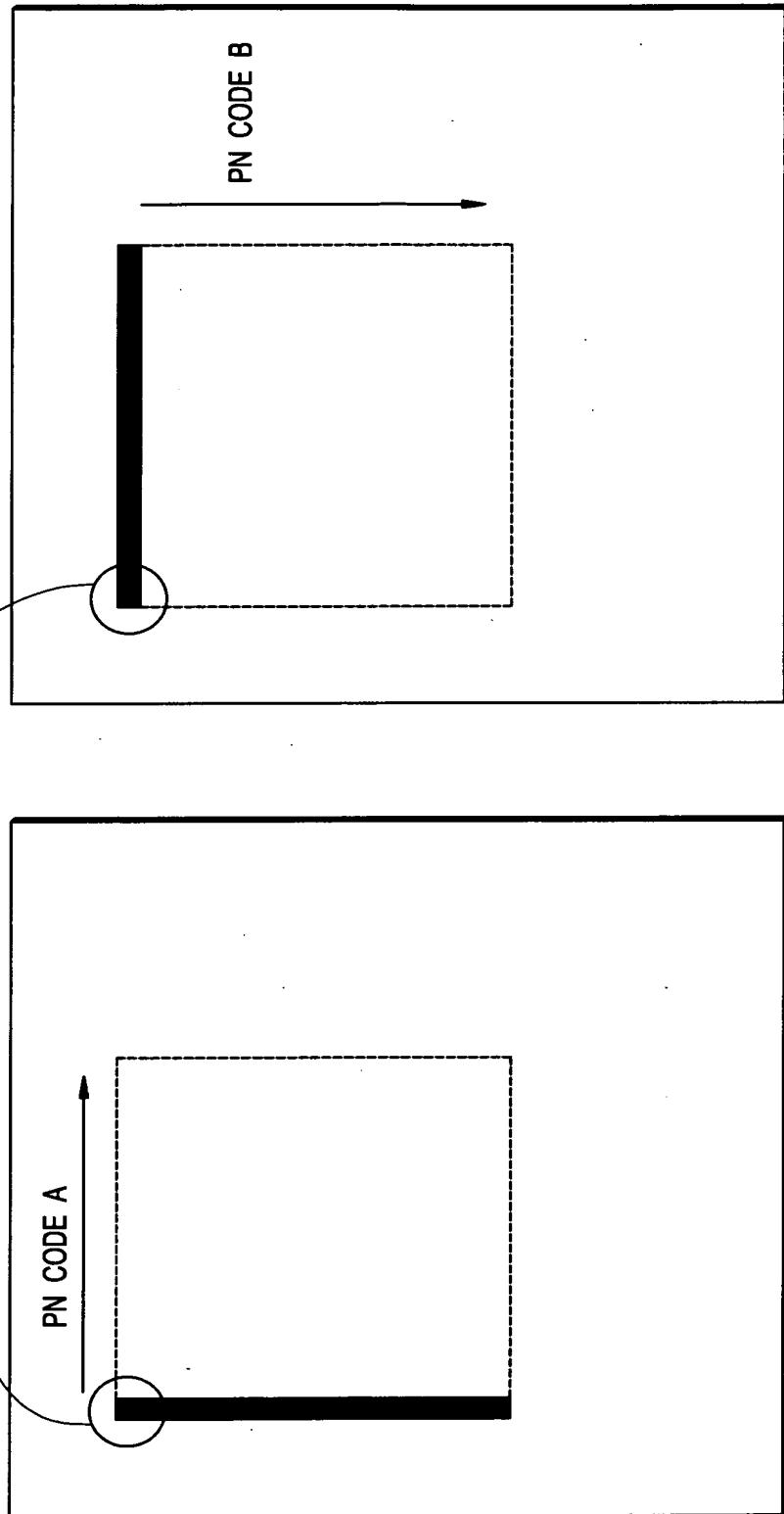


FIG. 29

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POINTS OF INTERSECTION OF SUCH CONTINUOUS PEAK CORRELATION VALUES ARE  
THE VERTEXES OF THE TWO-DIMENSIONAL PN CODE SEQUENCE.



CORRELATION VALUES CALCULATED IN  
THE VERTICAL DIRECTION BY PN  
CORRELATION VALUES CALCULATED IN  
THE HORIZONTAL DIRECTION BY PN

FIG. 31

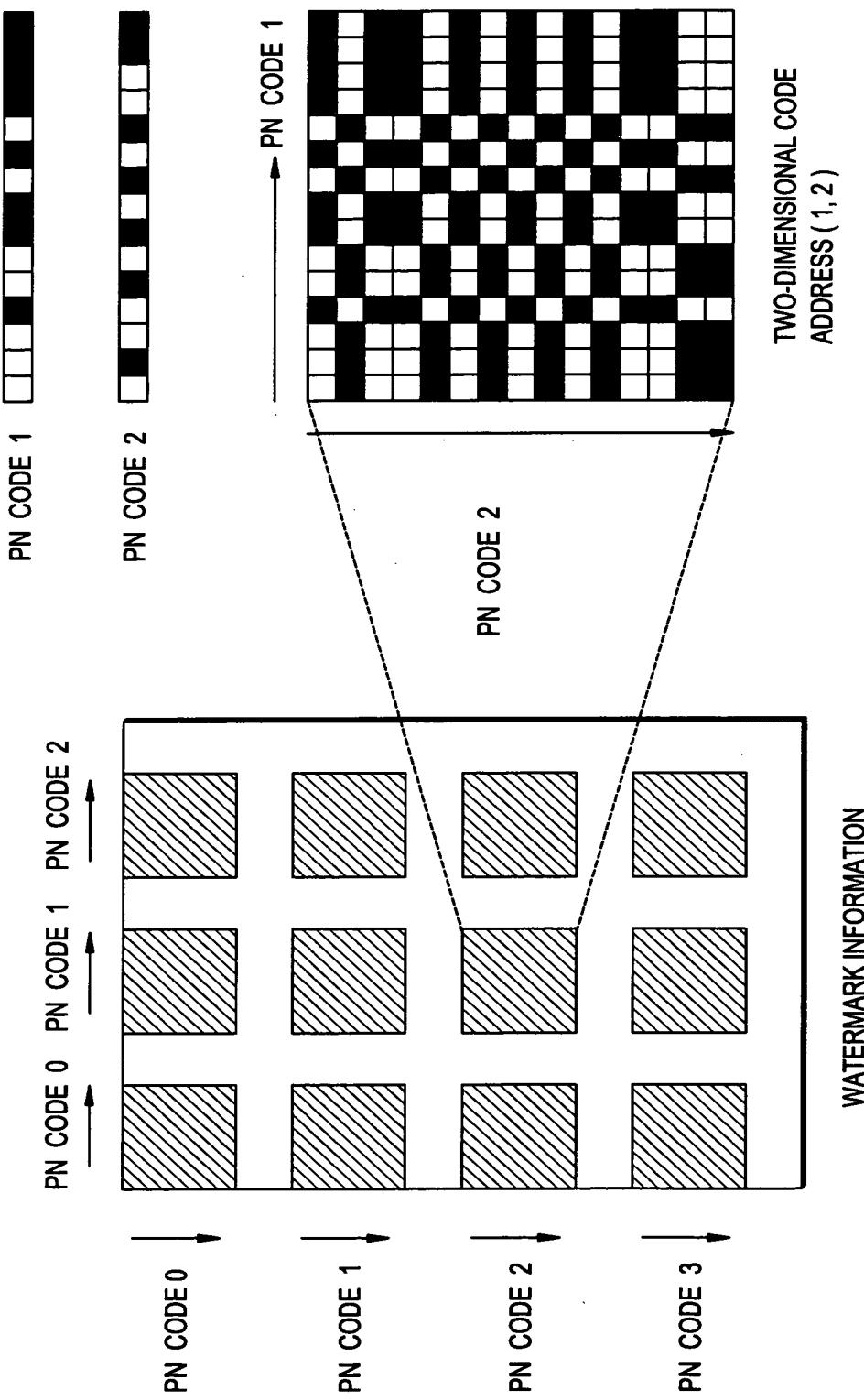


FIG. 32

**10153737**

Customer NO.: 23995

Entered Nov. 25, 1935

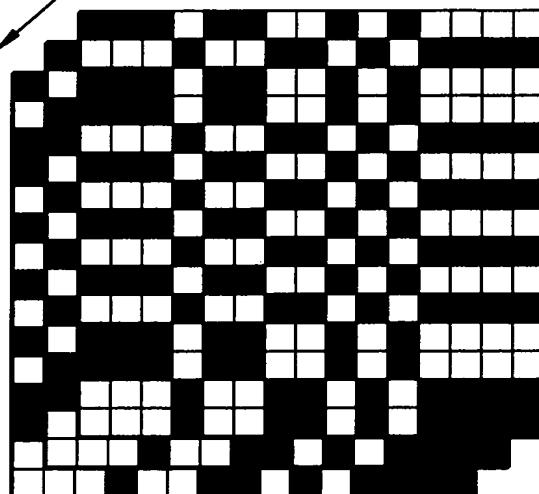
**PN CODE A** 

1

0

## THREE-DIMENSIONAL CODE

PN CODE C → PN CODE A



PN CODE B

## THREE-DIMENSIONAL CODE

**FIG. 33**